

04/12/2006 HMARZII 00000032 10701259



Docket No.: KC-19,694

Group No.: 1712

Marc S. Zimmer

Examiner:

NITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Peiguang ZHOU

Gregory K. HALL

Serial No:

10/701,259

Filing Date:

04 November 2003

Title:

HIGH-VISCOSITY ELASTOMERIC

ADHESIVE COMPOSITION

Customer No.:

35844

THIRD INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

In accordance with Rules 156 and 1.98, the references listed on the attached Form PTO-1449 were cited during prosecution of the patent application listed below and are hereby brought to the attention of the Examiner as being possibly material to examination of the subject patent application.

Title:

STRAND-REINFORCED COMPOSITE MATERIAL

Applicants:

Cristian M. NECULESCU et al.

Serial No.:

10/187,761

Filing Date:

02 July 2002

Attorney Docket No.: K-C 17,474

Copies of these references are not enclosed as they are contained in the file of the related parent application.

I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

Date	Signature
05 April 2006	Mague
05 April 2006	_•

KCC-2225

I/mrc

Serial No.: 10/701,259 Docket No.: KC-19,694

Because this Third Information Disclosure Statement is being filed after receipt of the first Office Action, Applicants have enclosed a check in the amount of \$180.00 to cover the fee under 37 C.F.R. 1.17(p). The Commissioner is authorized to charge any additional fee required to Deposit Account No. 19-3550. A duplicate copy of this Third Information Disclosure Statement is enclosed.

Form PTO-1449 (40 pages) is enclosed herewith.

Respectfully submitted,

Maxwell J. Petersen

Registration No. 32,772

Mapel Heturs

Pauley Petersen & Erickson 2800 West Higgins Road; Suite 365 Hoffman Estates, Illinois 60195 TEL (847) 490-1400

FAX (847) 490-1403

_ }.

						She	et 1 of _	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM.		ATTY. DOCKE	T NO.	SERIAL NO. 10/701,259		
1 18	T OE DI	RIOR ART CITED BY APPLICANT		APPLICANT(S)		<u> </u>		
Lio	(Us	se several sheets if necessary)		Peiguang ZH				
		Wo &		FILING DATE		GROUP		
	AF	PR 1 1 2006		04 November	2003	1712		
	(Br	TRADEMOTE U.S.	PATENT D	OCUMENTS		.		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D	
	AA	2,206,761 A	07/1940	Bergstein	********			
	АВ	2,266,761 A	12/1941	Jackson, Jr. et	al.	ļ		
	AC	2,357,392 A	09/1944	Francis, Jr.				
	AD	2,464,301 A	03/1949	Francis, Jr.				
	AE	2,483,405 A	10/1949	Francis, Jr.				
	AF	2,957,512 A	10/1960	Wade et al.				
	AG	2,957,852 A	10/1960	Frankenburg et	al.			
	АН	3,186,893 A	06/1965	Mercer				
	AI	3,371,668 A	03/1968	Johnson				
	AJ	3,391,048 A	07/1968	Dyer et al.		4		
	AK	3,439,085 A	04/1969	Hartmann				
		FOREIG	N PATEN	DOCUMENTS	3			
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTR	Y CLASS	SUBCLASS	YES	NO
	AL	2 165 486	06/1996	CA				
	АМ	34 23 644	01/1986	DE				
	AN	37 34 963	04/1988	DE				
	AO	0 155 636	09/1985	EP				
	AP	0 172 037	02/1986	EP				<u> </u>
		OTHER PRIOR ART (Inc	cluding Auth	or, Title, Date, Pe	rtinent Pages, Etc.)			
	AR						-	
	AS							
	AT							
						,		
EXAMINER				DA	TE CONSIDERED	·		
*EXAMINER		ial if reference considered, whether or not				line through cita	tion if not	
in conformance	e and not	considered. Include copy of this form wi	ur next comn	rumcation to appl	icani.		001414 00 0	0.0005

USCOMM-DC 80-3985

•						She	eet 2 of	40	
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEN	COMMERCE	ATTY, DOCKET NO.		SERIAL NO.			
(110011 100)		LUIERI URD HADER	MARK OFFICE	KC-19,694		10/701,259			
LIS	T OF P	RIOR ART CITED BY APPLICAN	г	APPLICANT(S)		<u> </u>	-		
1	SIP (E	se several sheets if necessary)		Peiguang ZHOU e	t al.				
(APR 11	2006		FILING DATE		GROUP			
B	AP 3 TRA	- LAST		04 November 2003	3	1712			
	TRA	U.S.	PATENT D	OCUMENTS		<u> </u>			
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO		
	AA	3,449,187 A	06/1969	Bobkowicz					
	АВ	3,468,748 A	09/1969	Bassett					
	AC	3,489,148 A	01/1970	Duncan et al.					
0	AD	3,575,782 A	04/1971	Hansen					
	AE	3,616,129 A	10/1971	Sager					
	AF	3,629,047 A	12/1971	Davison					
	AG	3,669,823 A	06/1972	Wood					
	АН	3,673,026 A	06/1972	Brown					
	AI	3,676,242 A	07/1972	Prentice					
	AJ	3,689,342 A	09/1972	Vogt et al.					
	AK	3,752,613 A	08/1973	Vogt et al.					
		FOREIG	N PATENT	DOCUMENTS					
		200111717					TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL	0 217 032	04/1987	EP					
	AM	0 239 080	09/1987	EP			· · · · · · · · · · · · · · · · · · ·		
	AN	0 330 716 A2	09/1989	EP					
	AO	0 380 781	08/1990	EP_			<u></u>		
	AP	0 396 800	11/1990	EP_					
		OTHER PRIOR ART (Inc	luding Autho	r, Title, Date, Pertinent	Pages, Etc.)				
	L								
	AR								
	AS						-		
	АТ								

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

· ,						She	eet <u>3</u> of _	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF		ATTY. DOCKET NO.		SERIAL NO.		
(MODIFIED)		PATENT AND TRADEM	IARK OFFICE	KC-19,694		10/701,259		
LIS	T OF F	PRIOR ART CITED BY APPLICANT	-	APPLICANT(S)		<u> </u>		
	(1	Use several sheets if necessary)		Peiguang ZHOU et	al.			
			•	FILING DATE		GROUP		
				04 November 2003		1712		
		U.S.	PATENT D	OCUMENTS		<u> </u>		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	
	AA	3,773,590 A	11/1973	Morgan				
	AB	3,806,289 A	04/1974	Schwarz				
	AC	3,836,416 A	09/1974	Ropiequet				
	AD	3,838,692 A	10/1974	Levesque				
	AE	3,855,046 A	12/1974	Hansen et al.				
	AF	3,857,144 A	12/1974	Bustin				
	AG	3,860,003 A	01/1975	Buell				-
	АН	3,890,184 A	06/1975	Morgan				
	AI	3,904,465 A	09/1975	Haase et al.				****
	AJ	3,912,567 A	10/1975	Schwartz				
	AK	3,917,448 A	11/1975	Wood				
		FOREIG	N PATEN	T DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	0 456 885	11/1991	EP				
	АМ	0 547 497	06/1993	EP				
	AN	0 582 569	02/1994	EP				
	AO	0 604 731	07/1994	EP		_		
	AP	0 617 939	10/1994	EP				
		OTHER PRIOR ART (Inc	luding Autho	or, Title, Date, Pertinent i	Pages, Etc.)			
	AR					***		
	AS							
								<u> </u>

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

						She	et 4 of	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT PATENT AND TRAD		ATTY. DOCKET NO		SERIAL NO.		
				KC-19,694		10/701,259		
LIS		RIOR ART CITED BY APPLICA	NT	APPLICANT(S)			·	
	(U	se several sheets if necessary)		Peiguang ZHOU e	et al.			
				FILING DATE		GROUP		
				04 November 200	3	1712		
		U.	S. PATENT D	OCUMENTS				
*EXAMINER _ INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	3,932,328 A	01/1976	Korpman				
	AB	3,949,128 A	04/1976	Ostermeier				
	AC	3,949,130 A	04/1976	Sabee et al.				
	AD	3,973,063 A	08/1976	Clayton				
	AE	3,978,185 A	08/1976	Buntin et al.				
	AF	3,979,050 A	09/1976	Cilia				
	AG	4,013,816 A	03/1977	Sabee et al.				
	АН	4,028,292 A	08/1977	Korpman				
	AI	4,0 8 9,348 A	07/1977	Feeney				
	AJ	4,041,203 A	08/1977	Brock et al.				
	AK	4,080,348 A	03/1978	Korpman				
		FORE	IGN PATEN	T DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	0 688 550	12/1995	EP				
	АМ	0 689 815	01/1996	EP				
٠,	AN	0 713 546	05/1996	EP				
	AO	0 743 052	11/1996	EP				
	AP	0 753 292	01/1997	EP				
		OTHER PRIOR ART (Including Autho	or, Title, Date, Pertinent	t Pages, Etc.)			
	AR							
i	AS -							

DATE CONSIDERED

EXAMINER

						Sne	eet 5 of	40
FORM PTO-1449 (MODIFIED))	U.S. DEPARTMENT OF C PATENT AND TRADEMA	COMMERCE ARK OFFICE	ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259		
						10//01,200		
LIS		PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT(S)				
	(Use several sneets if necessary)		Peiguang ZHOU et	al.			
				FILING DATE		GROUP		
				04 November 2003		1712		
		U.S. F	PATENT D	OCUMENTS		<u> </u>		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA_	4,090,385 A	05/1978	Packard				-
	AB	4,100,324 A	07/1978	Anderson et al.				
	AC	4,107,364 A	08/1978	Sisson				
	AD	4,135,037 A	01/1979	Udipi et al.				
	AE	4,148,676 A	04/1979	Paquette et al.				
	AF	4,209,563 A	06/1980	Sisson			7.77	
	AG	4,211,807 A	07/1980	Yazawa et al.				
	АН	4,239,578 A	12/1980	Gore				
	Al	4,241,123 A						
	AJ 4,248,652 A			Civardi et al.				
	AK	4,259,220 A	02/1981	Bunnelle et al.				
		FOREIGI	N PATENT	DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
`	AL	0 761 193	03/1997	EP				
	AM	0 761 194	03/1997	EP				
	AN	0 763 353	03/1997	EP				
	АО	0 787 474	08/1997	EP				
	AP	0 802 251 A1	10/1997	EP				
		OTHER PRIOR ART (Inclu			Pages. Etc.)			
				<u>,</u>	<u>ug,,</u>			
	AR		·					
								
	AS							
	AT							
EXAMINER				DATE CONS	SIDERED			
EXAMINER:		ial if reference considered, whether or not cit	itation is in c	conformance with MPEP	609: Draw li	ne through citatic	en if not	
n conformance	and not	t considered. Include copy of this form with r	next commu	unication to applicant.		no unough ollatic)	

FORM PTO-144 (MODIFIED)	9	U.S. DEPARTMENT OF PATENT AND TRADEN	COMMERCE MARK OFFICE	ATTY. DOCKET NO).	SERIAL NO. 10/701,259	eet 6 of	40
LIS	ST OF	PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	Г	APPLICANT(S) Peiguang ZHOU	et al.	. 		
				FILING DATE		GROUP		
				04 November 200	3	1712		
-		II S	PATENT D	OCUMENTS		<u> </u>		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	4,285,998 A	08/1981	Thibodeau				JI INIVIL
	AB	4,300,562 A	11/1981	Pieniak		-		
	AC	4,302,495 A	11/1981	Marra			<u> </u>	
	AD	4,303,571 A	12/1981	Jansen et al.				
	AE	4,304,234 A	12/1981	Hartmann				
	AF	4,310,594 A	01/1982	Yamazaki et al.				
	AG	4,319,572 A	03/1982	Widlund et al.				
	АН	4,323,534 A	04/1982	DesMarais				-
	Al	4,333,782 A	06/1982	Pieniak				
	AJ	4,340,558 A	07/1982	Hendrickson				
	AK	4,374,888 A	02/1983	Bornslaeger				
	, ,	FOREIG	N PATENT	DOCUMENTS	-			
		DOCUMENT AN IMPER					TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	0 806 196	11/1997	EP				
	AM	0 814 189	12/1997	EP				
	AN	0 901 780	03/1999	EP EP				
-	AO	1 013 251	06/2000	EP				
	AP	2 244 422	12/1991	GB				
-	··· r	OTHER PRIOR ART (Inc.	luding Autho	r, Title, Date, Pertinent	Pages, Etc.)			
	AR							
	AS							
	AS							
	AT		-4-					

DATE CONSIDERED

EXAMINER

FORM PTO-1449		U.C. DEDARTMENT OF					eet 7 of	
(MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEN	F COMMERCE MARK OFFICE	ATTY. DOCKET NO).	SERIAL NO.		
				KC-19,694		10/701,259		
LIS	T OF F	PRIOR ART CITED BY APPLICANT	т	APPLICANT(S)				·
	(1)	Use several sheets if necessary)		Peiguang ZHOU e	∍t al.			
				FILING DATE		GROUP		
				04 November 200	3	1712		
		U.S.	PATENT D	OCUMENTS				···
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	4,375,446 A	03/1983	Fujii et al.				
	АВ	4,402,688 A	09/1983	Julemont				
	AC	4,405,397 A	09/1983	Teed				
	AD	4,413,623 A	11/1983	Pieniak				
	AE	4,417,935 A	11/1983	Spencer				
	AF	4,418,123 A	11/1983	Bunnelle et al.				
	AG	4,438,167 A	03/1984	Schwarz				
	АН	4,440,819 A	04/1984	Rosser et al.				
	AI	4,490,427 A	12/1984	Grant et al.				
	AJ	4,496,417 A	01/1985	Haake et al.				
	AK	4,507,163 A	03/1985	Menard				
		FOREIG	N PATENT	DOCUMENTS		·		
		DOCUMENT NUMBER	DATE	COLINTRY	21.456	21.1201.100	TRANSL	ATION
	-	DOGGIETT TOMBET	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	2 250 921	06/1992	GB				
	AM	2 253 131	09/1992	GB				
	AN	2 267 024	11/1993	GB				
	AO	2 268 389	01/1994	GB				
	AP	92891	02/1992	IS				
— т		OTHER PRIOR ART (Inc.	luding Author	r, Title, Date, Pertinent	Pages, Etc.)			
	AR -		м					
	AS				7.			
	1							

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

						Sh	eet <u>8</u> of	40
FORM PTO-1449 (MODIFIED))	U.S. DEPARTMENT OF PATENT AND TRADEN	COMMERCE MARK OFFICE	ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259		
LIS	ST OF F	PRIOR ART CITED BY APPLICANT	r	APPLICANT(S)				
	(1	Jse several sheets if necessary)		Peiguang ZHOU et	اما			
				reignang Zi iOO et	aı.			
				FILING DATE		GROUP	 _	
				04 November 2003		1712		
<u></u>		US	PATENT D	OCUMENTS		<u> </u>		
*EXAMINER		DOCUMENT NUMBER	DATE		31.466		Γ	
INITIAL		DOODWEIT HOWBEIT	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	4,522,863 A	06/1985	Keck et al.				
*	АВ	4,525,407 A	06/1985	Ness				
	AC	4,543,099 A	09/1985	Bunnelle et al.				
	AD	4,548,859 A	10/1985	Kline et al.				
	AE	4,552,795 A	11/1985	Hansen et al.				
	AF	4,555,811 A	12/1985	Shimalla				
	AG	4,572,752 A	08/1986	Jensen et al.				
-	АН	4,586,199 A	05/1986	Birring				
	Al D284,036 S			Birring				
	AJ	4,606,964 A	08/1986	Wideman				
	AK	4,618,384 A	10/1986	Sabee				
		FOREIG	N PATENT	DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	3-67646	03/1991	JP				110
	АМ	WO 80/00676	04/1980	PCT				
	AN	WO 90/03464	04/1990	PCT				
	AO	WO 91/07277	05/1991	PCT				
	AP	WO 92/16371	10/1992	PCT				
		OTHER PRIOR ART (Incl	luding Author		Pages Etc.)			
			<u>J</u>	, ·······, zato, ·· ortinone ·	ages, Etc.)			
	AR							-
	AS							
	AT			· · · · · · · · · · · · · · · · · · ·				
XAMINER				DATE CON	SIDERED			
	_							
EXAMINER: conformance	Initia and not o	al if reference considered, whether or not considered. Include copy of this form with	itation is in connect	onformance with MPEP	609; Draw lir	ne through citatio	n if not	
		The state of the form with	HOAL COMMING	meation to applicant.				i

FORM PTO-1449	9	U.S. DEPARTMENT	OF COMMERCE	ATTY DOOUGET			eet 9 of	40
(MODIFIED)		PATENT AND TRAD	EMARK OFFICE	ATTY. DOCKET NO).	SERIAL NO.		
				KC-19,694		10/701,259		
LIS	ST OF PF	RIOR ART CITED BY APPLICA	NT	APPLICANT(S)				
	(Us	se several sheets if necessary)		Peiguang ZHOU	et al.			
				Ī		Т——		
				FILING DATE		GROUP		
				04 November 200	3	1712		
		U.\$. PATENT D	OCUMENTS			*	
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR	DATE OPRIAT
	AA	4,626,305 A	12/1986	Suzuki et al.				
	АВ	4,636,419 A	01/1987	Madsen et al.				
	AC	4,640,859 A	02/1987	Hansen et al.				
	AD	4,644,045 A	02/1987	Fowells				
	AE	4,652,487 A	03/1987	Morman				
	AF	4,656,081 A	04/1987	Ando et al.				
	AG 4,657,793 A		04/1987	Fisher				
	AH	4,657,802 A	04/1987	Morman				
	AI	4,661,389 A	04/1987	Mudge et al.				
	AJ	4,663,220 A	05/1987	Wisneski et al.				
	AK	4,666,543 A	05/1987	Kawano				
		FORE	GN PATENT	DOCUMENTS				
	411	DOCUMENT NUMBER	DATE	00141701			TRANSL	ATION
		DOGGNERT ROMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	WO 93/15247	08/1993	PCT				
	AM	WO 93/17648	09/1993	PCT				
	AN	WO 94/09736	05/1994	PCT	4			
	AO	WO 95/03443	02/1995	PCT				
	AP	WO 95/04182	02/1995	PCT				
		OTHER PRIOR ART (In	cluding Author	r, Title, Date, Pertinent	Pages, Etc.)			
	AR							
	AS							
								——
1	AT		***					

DATE CONSIDERED

FORM PTO-1449 (MODIFIED)	ð	U.S. DEPARTMENT OF PATENT AND TRADER	F COMMERCE MARK OFFICE	ATTY. DOCKET NO. KC-19,694		SERIAL NO.	<u>et_10_</u> 0i	40
LK	ST OF	PRIOR ART CITED BY APPLICAN' (Use several sheets if necessary)	ı T	APPLICANT(S)		10/701,259		
	,	(Use several streets if frecessary)		Peiguang ZHOU et	al.			
				FILING DATE	-	GROUP		
				04 November 2003		1712		
		U.S.	. PATENT D	DOCUMENTS				
*EXAMINER INITIAL	<u> </u>	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	4,675,068 A	06/1987	Lundmark	1			<u> </u>
	АВ	4,683,877 A	08/1987	Ersfeld et al.				
	AC	4,687,477 A	08/1987	Suzuki et al.				
	AD	4,692,368 A	09/1987	Taylor et al.				
	AE	4,692,371 A	09/1987	Morman et al.			[
	AF	4,698,242 A	10/1987	Salerno				
	AG	4,704,116 A	11/1987	Enloe				
	АН	4,718,901 A	01/1988	Singheimer				
	AI	4,719,261 A	01/1988	Bunnelle et al.				
	AJ	4,720,415 A	01/1988	Vander Wielen et al.				
	AK	4,725,468 A	02/1988	McIntyre				
		FOREIC	SN PATENT	DOCUMENTS	<u></u>			
	,						TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	WO 95/16425	06/1995	PCT				1,10
	АМ	WO 95/16562	06/1995	РСТ				
	AN	WO 95/34264	12/1995	PCT				
	AO	WO 96/13989	05/1996	РСТ				
	AP	WO 96/23466	08/1996	РСТ				
	—	OTHER PRIOR ART (Inci			Pages. Etc.)			
				,	<u>1900, L.s.,</u>			
	AR							
	AS							
	АТ							
EXAMINER				DATE CONS	IDERED			
EXAMINER:	Initi	ial if reference considered, whether or not co	itation is in co	onformance with MPEP f	609: Draw lir	ne through citatio	n if not	
conformance a	and not	considered. Include copy of this form with	next commu	nication to applicant.		o	THING	1

						Chao	t 11 of	40
FORM PTO-1449		U.S. DEPARTMENT OF	COMMERCE	ATTY, DOCKET NO.		SERIAL NO.	t <u> </u>	40
(MODIFIED)		PATENT AND TRADEM	ARK OFFICE	KC-19,694		10/701,259		
LIS		IOR ART CITED BY APPLICANT e several sheets if necessary)		APPLICANT(S) Peiguang ZHOU et	al			
				Telguaring 21100 et	aı.	<u> </u>		
				FILING DATE		GROUP		
				04 November 2003		1712		
		U.S.	PATENT D	OCUMENTS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	
	AA	4,726,874 A	02/1988	Van Vliet				
	AB	4,734,311 A	03/1988	Sokolowski				
	AC	4,734,320 A	03/1988	Ohira et al.				
	AD	4,734,447 A	03/1988	Hattori et al.				
	AE	4,735,673 A	04/1988	Piron				
7	AF	4,756,942 A	07/1988	Aichele				
	AG	4,761,198 A	08/1988	Salerno				
	АН	4,762,582 A	08/1988	de Jonckheere				
	Al	4,775,579 A	10/1988	Hagy et al.				
	AJ	4,777,080 A	10/1988	Harris, Jr. et al.				
	AK	4,781,966 A	11/1988	Taylor				
	•	FOREIG	N PATEN	T DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	WO 96/35402	11/1996	PCT				
	АМ	WO 97/17046	05/1997	PCT				
	AN	WO 98/14156	04/1998	PCT				
	AO	WO 98/49988	11/1998	PCT				
	AP	WO 98/55062	12/1998	РСТ				
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent	Pages, Etc.)			
	AR -							· · · · -
	AS		-	-		·		
	 	<u> </u>					~ -	

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ΑT

						Shee	t <u>12</u> of _	40
FORM PTO-1449		U.S. DEPARTMENT OF		ATTY. DOCKET NO.		SERIAL NO.		
(MODIFIED)		PATENT AND TRADEM.	ARK OFFICE	KC-19,694		10/701,259		
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)		APPLICANT(S) Peiguang ZHOU et	al.	.,,		
				FILING DATE		GROUP		
				04 November 2003		1712		
		U.S.	PATENT D	OCUMENTS		,		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	
	AA	4,787,699 A	11/1988	Moulin				
	АВ	4,789,699 A	12/1988	Kieffer et al.				
	AC	4,795,668 A	01/1989	Krueger et al.				
	AD	4,798,603 A	01/1989	Meyer et al.				
	AE	4,801,345 A	01/1989	Dussaud et al.			A	
	AF	4,801,482 A	01/1989	Goggans et al.	N			
	AG	4;803,117 A	02/1989	Daponte				
	АН	4,804,577 A	02/1989	Hazelton et al.				1
	AI	4,818,464 A	04/1989	Lau				
	AJ	4,818,597 A	04/1989	DaPonte et al.				
	AK	4,826,415 A	05/1989	Mende				
		FOREIG	N PATEN	DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL	WO 99/17926	04/1999	PCT				

	AO	WO 99/60969		12/1999	PCT				
	AP	WO 99/60970		12/1999	PCT				
		OTHER PR	IOR ART (In	cluding Autho	r, Title, Date, F	Pertinent Pa	ages, Etc.)		
	AR								
-									
	AS								
	AT								

05/1999

09/1999

PCT

PCT

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

USCOMM-DC 80-3985

EXAMINER

ΑM

ΑN

WO 99/24519

WO 99/47590

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM.		ATTY. DOCKET NO. KC-19,694		Shee SERIAL NO. 10/701,259	t_13_of_	40	
LIS		OR ART CITED BY APPLICANT several sheets if necessary)	•	APPLICANT(S) Peiguang ZHOU et a	al.				
				FILING DATE 04 November 2003		GROUP 1712			
		U.S.	PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	4,842,666 A	06/1989	Werenicz					
	АВ	4,854,985 A	08/1989	Soderlund et al.					
	AC	4,854,989 A	08/1989	Singheimer					
	AD	4,863,779 A	09/1989	Daponte					
	AE	4,867,735 A	09/1989	Wogelius					
	AF	4,874,447 A	10/1989	Hazelton et al.					
	AG	4,879,170 A	11/1989	Radwanski et al.					
	АН	4,883 <u>,</u> 482 A	11/1989	Gandrez et al.	<u> </u>				
	AI	4,883,549 A	11/1989	Frost et al.					
	AJ	4,891,258 A	01/1990	Fahrenkrug					
	AK	4,892,536 A	01/1990	DesMarais et al.					
		FOREIC	N PATEN	T DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL	WO 99/60971	12/1999	PCT					
	АМ	WO 00/10500	03/2000	PCT					
	AN	WO 00/29199	05/2000	PCT					
	AO	WO 00/37003	06/2000	PCT					
	AP	WO 00/37005	06/2000	PCT					
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent I	Pages, Etc.)				
	AR								
	AS				»				
	1 1 -								

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ΑТ

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259				
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	Г	APPLICANT(S) Peiguang ZHOU et a	al.			-		
				FILING DATE GROUP						
				04 November 2003 1712						
		U.S.	PATENT D	OCUMENTS	_					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING (IF APPRO			
11111111	AA	4,892,903 A	01/1990	Himes			/ 110	110112		
	АВ	4,900,619 A	02/1990	Ostrowski et al.						
· · · · · ·	AC	4,906,507 A	03/1990	Grynaeus et al.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	AD	4,908,247 A	03/1990	Baird et al.						
	AE	4,908,253 A	03/1990	Rasmussen						
	AF	4,910,064 A	03/1990	Sabee						
	AG	4,917,696 A	04/1990	De Jonckheere						
	AH	4,917,746 A	04/1990	Kons et al.						
	Al	4,929,492 A	05/1990	Carey, Jr. et al.						
			06/1990	Huffman et al.						
	AK	4,938,821 A	07/1990	Soderlund et al.						
		FOREI	GN PATEN	T DOCUMENTS						
							TRANSL	ATION		
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO		
	AL	WO 00/37009	06/2000	PCT						
	АМ	WO 00/37723	06/2000	PCT						
	AN	WO 01/00053	01/2001	PCT						
	AO	WO 01/32116	05/2001	PCT						
	AP	WO 01/49907	07/2001	PCT						
		OTHER PRIOR ART (In	cluding Autho	or, Title, Date, Pertinent F	Pages, Etc.)					
	AR									
	AS									
	AT									
				1						
EXAMINER	EXAMINER			DATE CON	ISIDERED					
*EXAMINER		itial if reference considered, whether or no ot considered. Include copy of this form wi			9 609; Draw	line through citat	ion if not			

USCOMM-DC 80-3985

· · ·						Shee	et <u>15</u> of _	40
FORM PTO-1449)	. U.S. DEPARTMENT OF		ATTY. DOCKET NO.	·	SERIAL NO.		
(MODIFIED)		PATENT AND TRADEM	IARK OFFICE	KC-19,694		10/701,259		
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	-	APPLICANT(S) Peiguang ZHOU et	al.			
				FILING DATE		GROUP		
				04 November 2003		1712		
		U.S.	PATENT D	OCUMENTS		l		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	
	AA	4,939,016 A	07/1990	Radwanski et al.				
	АВ	4,940,464 A	07/1990	Van Gompel et al.	-			
	AC	4,949,668 A	08/1990	Heindel et al.		<u> </u>		
	AD	4,965,122 A	10/1990	Morman				
7	AE	4,968,313 A	11/1990	Sabee				
	AF	4,970,259 A	11/1990	Mitchell et al.				
	AG	4,977,011 A	12/1990	Smith				****
_	АН	4,981,747 A	01/1991	Morman				
	AI	4,984,584 A	01/1991	Hansen et al.				
	AJ	4,994,508 A	02/1991	Shiraki et al.				
	AK	4,995,928 A	02/1991	Sabee				
		FOREIG	N PATENT	DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTDY	CLASS	CUROL AGO	TRANSL	ATION
		DOCOMENT NOMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
***	AL	WO 01/87214	11/2001	PCT				
	АМ	WO 02/34184	05/2002	PCT				
	AN	WO 02/053667 A2	07/2002	PCT				
	AO	WO 02/053668 A2	07/2002	PCT				
	AP	WO 02/060690	08/2002	PCT				
	r	OTHER PRIOR ART (Inc	luding Autho	or, Title, Date, Pertinent	Pages, Etc.)			
	AR					·		
	AS			· · · · · · · · · · · · · · · · · · ·	·····.			
					*			-
	1 a= 1-	-						

DATE CONSIDERED

EXAMINER

Sheet	16	of_	4(

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DO KC-19,69			SERIAL NO. 10/701,259			
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	-	APPLICAN Peiguang	NT(S) J ZHOU et a	al.				
				FILING DA	ATE		GROUP			
				04 Nover	mber 2003		1712			
		U.S.	PATENT D	OCUMENT	rs					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NA	ME	CLASS	SUBCLASS	FILING D		
	AA	4,998,929 A	03/1991	Bjorksund	et al.					
	AB	5,000,806 A	03/1991	Merkatoris	et al.					
	AC	5,002,815 A	03/1991	Yamanaka	et al.					
	AD	5,005,215 A	04/1991	Mcllquhan	n					
	AE	5,013,785 A	05/1991	Mizui						
	AF	5,028,646 A	07/1991	Miller et al						
	AG	5,032,120 A	07/1991	Freeland e	et al.					
	АН	5,034,008 A	07/1991	Breitkopf						
	Al	5,045,133 A	09/1991	DaPonte e	et al.					
	AJ	5,057,368 A	10/1991	Largman e	et al.					
	AK	5,060,349 A	10/1991	Walton et	al.					
		FOREIG	ON PATENT	T DOCUME	ENTS					
	1							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COU	NTRY	CLASS	SUBCLASS	YES	NO	
	AL	WO 02/085624 A1	10/2002	P	СТ					
	AM	WO 2004/039907 A1	05/2004	P	СТ					
	AN	· · · · · · · · · · · · · · · · · · ·								
	AO									
	AP								L	
		OTHER PRIOR ART (In	cluding Autho	or, Title, Date	e, Pertinent F	Pages, Etc.)				
	AR									
	AS									
	AT		-							
EXAMINER					DATE CONSIDERED					
*EXAMINER in conformance		itial if reference considered, whether or not ot considered. Include copy of this form wi				609; Draw				
							US	COMM-DC 8	0-3985	

						Q 1	. 47	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259	t <u>17</u> of _	40
LIS		RIOR ART CITED BY APPLICANT se several sheets if necessary)	г	APPLICANT(S) Peiguang ZHOU et	al.		_	
			*	FILING DATE 04 November 2003		GROUP 1712		
		U.S.	PATENT D	OCUMENTS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING E	
	AA	5,069,970 A	12/1991	Largman et al.				
	АВ	5,073,436 A	12/1991	Antonacci et al.				
	AC	5,093,422 A	03/1992	Himes				
	AD	5,096,532 A	03/1992	Neuwirth et al.				
	AE	5,100,435 A	03/1992	Onwumere				
	AF	5,108,820 A	04/1992	Kaneko et al.				
	AG	5,110,403 A	05/1992	Ehlert				
	АН	5,112,889 A	05/1992	Miller et al.				
_	Al	5.114,087 A	05/1992	Fisher et al.				
	AJ	5,116,662 A	05/1992	Morman				
	AK	5,14 <u>5,727</u> A	09/1992	Potts et al.				
		FOREIG	GN PATEN	T DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							
		OTHER PRIOR ART (In	cluding Auth	or, Title, Date, Pertinent	Pages, Etc.)			
	AR							
	AS			****				
		1						

USCOMM-DC 80-3985

•						Shee	t <u>18</u> of _	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259		
LIS		RIOR ART CITED BY APPLICANT Ise several sheets if necessary)	г	APPLICANT(S) Peiguang ZHOU et a	al.			
				FILING DATE 04 November 2003	GROUP 1712			
		U.S.	PATENT D	OCUMENTS				_
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I	
	AA	5,147,487 A	09/1992	Nomura et al.				
	АВ	5,149,741 A	09/1992	Alper et al.				
	AC	D331,627 S	12/1992	Igaue et al.				
	AD	5,169,706 A	12/1992	Collier IV et al.				
	AE	5,169,712 A	12/1992	Тарр				
	AF	5,176,668 A	01/1993	Bernardin				
	AG	5,176,672 A	01/1993	Bruemmer et al.				
	АН	5,178,931 A	01/1993	Perkins et al.				
	AI	5,186,779 A	02/1993	Tubbs				
	AJ	5,188,885 A	02/1993	Timmons et al.				
	AK	5,192,606 A	03/1993	Proxmire et al.				
•		FOREIG	SN PATEN	T DOCUMENTS				
							TRANSL	ATION
	C) III OL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL							
	AM							
	AN							
	AO							
	АР							
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent P	ages, Etc.)		-	
	AR					70		
							<u> </u>	
	l as H							

AS AT DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

							Shee	et 19 of	40
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DO	CKET NO.		SERIAL NO.		
(110511125)		FAILNI AND TRADEM	ARROTTOL	KC-19,69	94		10/701,259		
LIS	TOF	PRIOR ART CITED BY APPLICANT	-	APPLICAI	NT(S)	W W	<u> </u>		
	•	(Use several sheets if necessary)		Peiguanç	g ZHOU et a	al.			
				FILING D	ATE		GROUP		
				04 Nover	mber 2003		1712		
	.	U.S.	PATENT D	OCUMENT	rs		<u> </u>	***	
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	N/	AME	CLASS	SUBCLASS	FILING I	
	AA	5,198,281 A	03/1993	Muzzy et a	al.				
	AB	5,200,246 A	04/1993	Sabee					
	AC	5,204,429 A	04/1993	Kaminsky	et al.				
<u> </u>	AD	D335,707 S	05/1993	Igaue et a	l				
,-	ΑĒ	5,209,801 A	05/1993	Smith					
	AF	5,219,633 A	06/1993	Sabee					
	AG	5,226,992 A	07/1993	Morman			"		
	АН	5,229,191 A	07/1993	Austin					
	Al	5,232,777 A	08/1993	Sipinen et	al.				
	AJ	5,236,430 A	08/1993	Bridges					
	AK	5,236,770 A	08/1993	Assent et	al.				
		FOREIG	N PATENT	T DOCUME	ENTS		*		_
								TRANSL	ATION
		DOCUMENT NUMBER	DATE	cou	NTRY	CLASS	SUBCLASS	YES	NO
	AL								
	AM								
	AN						**		
	AO .								
· · · · · · · · · · · · · · · · · · ·	AP								
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date	e, Pertinent P	Pages, Etc.)			•
							**		
	AR								***
						·	***		<u>-</u> -
	AS				-				
	АТ								
EXAMINER		<u> </u>	÷	Т	DATE CON	SIDEBED.			
	·								
*EXAMINER		itial if reference considered, whether or not ot considered. Include copy of this form wit	citation is in h next comm	conformance unication to	e with MPEP applicant.	609; Draw I	ine through citati	on if not	

p1005-part1.3/ mrc

Sheet 20 of 40 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO. (MODIFIED) PATENT AND TRADEMARK OFFICE KC-19.694 10/701,259 LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S) (Use several sheets if necessary) Peiguang ZHOU et al. **FILING DATE GROUP** 04 November 2003 1712 **U.S. PATENT DOCUMENTS** *EXAMINER **DOCUMENT NUMBER** DATE NAME **CLASS SUBCLASS** FILING DATE INITIAL IF APPROPRIATE AA 08/1993 5,238,733 A Joseph et al. AB 09/1993 5,246,433 A Hasse et al. AC D340,283 S 10/1993 Igaue et al. ΑD 5,252,170 A 10/1993 Schaupp ΑF 5,259,902 A 11/1993 Muckenfuhs ΑF 5,260,126 A 11/1993 Collier, IV et al. AG 12/1993 5,272,236 A Lai et al. ΑН 5,277,976 A 01/1994 Hogle et al. ΑI 01/1994 5,278,272 A Lai et al. Collier, IV et al. 5,288,791 A 02/1994 ΑK 5,290,842 A 03/1994 Sasaki et al. **FOREIGN PATENT DOCUMENTS** TRANSLATION **DOCUMENT NUMBER** DATE COUNTRY CLASS SUBCLASS YES NO AL AM ΑN AO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR AS

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ΑT

s	heet	21	of_	40

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. KC-19,694		SERIAL NO. 10/701,259			
LIS		PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	•	APPLICANT(S) Peiguang ZHOU et a	al.				
				FILING DATE		GROUP			
				04 November 2003 1712					
		U.S.	PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	5,296,080 A	03/1994	Merkatoris et al.			II AITHO	TRIATE	
	AB	5,304,599 A	04/1994	Himes					
	AC	5,308,345 A	05/1994	Herrin					
	AD	5,312,500 A	05/1994	Kurihara et al.					
	AE	5,324,580 A	06/1994	Allan et al.					
	AF	5,332,613 A	07/1994	Taylor et al.					
	AG	5,334,437 A	08/1994	Zafiroglu					
	AH	5,334,446 A	08/1994	Quantrille et al.					
	AI 5,336,545 A 08/19			Morman		.			
	AJ	5,336,552 A	08/1994	Strack et al.		,-			
	AS 5,336,552 A 08/1994 AK 5,342,469 A 08/1994								
				Bodford et al. DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	АМ	-							
	AN								
	AO								
	AP								
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent P	Pages, Etc.)				
	[
	AR								
							-		
	AS								
	АТ								
EXAMINER				DATE CONSIDERED					
*EXAMINER:		itial if reference considered, whether or not ot considered. Include copy of this form with	citation is in	conformance with MPEP unication to applicant.	609; Draw I	ine through citat	on if not		
						USC	COMM-DC 8	0-3985	

p1005-part1.3/ mrc

· ,						Shor	u 22 as	40
FORM PTO-1449 (MODIFIED))	U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO.		SERIAL NO. 10/701,259	et <u>22</u> of	40
LIS		RIOR ART CITED BY APPLICANT Use several sheets if necessary)	г	APPLICANT(S) Peiguang ZHOU e	t al.		,	
				FILING DATE 04 November 2003	3	GROUP		
		us	PATENT D	OCUMENTS		L		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	5,360,854 A	11/1994	Bozich, Jr.				
	AB	5,364,382 A	11/1994	Latimer et al.				
	AC	5,366,793 A	11/1994	Fitts, Jr. et al.				
	AD	5,376,198 A	12/1994	Fahrenkrug et al.				
	AE	5,376,430 A	12/1994	Swenson et al.				
	AF	5,382,400 A	01/1995	Pike et al.				
<u></u>	AG	5,385,775 A	01/1995	Wright				
	АН	5,389,173 A	02/1995	Merkatoris et al.				
	AI	5,389,438 A	02/1995	Miller et al.				
<u>.</u>	AJ	5,393,599 A	02/1995	Quantrille et al.				
	AK	5,399,219 A	03/1995	Roessler et al.			<u> </u>	
		FOREIC	ON PATEN	T DOCUMENTS			_	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	
	AL						YES	NO
	AM			<u>.</u>	-	<u> </u>		
							~~~	
	AN AO							
<del></del>	AP						<del></del>	
	I AP I	OTHER PRIOR ART				L.,,		<u></u>
	AD	OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent	Pages, Etc.)			
	AR							
	AS							
	70							

DATE CONSIDERED

**EXAMINER** 

						Shed	et <u>23</u> of _	_40
FORM PTO-1449 (MODIFIED)	<b>}</b>	U.S. DEPARTMENT OF		ATTY, DOCKET NO	).	SERIAL NO.		
(MODIFIED)		PATENT AND TRADEM.	ARK OFFICE	KC-19,694		10/701,259		
LIS	ST OF I	PRIOR ART CITED BY APPLICANT	٢	APPLICANT(S)				
	(1	(Use several sheets if necessary)		Peiguang ZHOU e	et al.	_		
				FILING DATE		GROUP		
				04 November 200	3	1712		
	~	U.S.	PATENT D	OCUMENTS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO	
	AA	5,405,682 A	04/1995	Shawyer et al.				
···	АВ	5,407,507 A	04/1995	Ball				
	AC	5,411,618 A	05/1995	Jocewicz, Jr.				
	AD	5,413,654 A	05/1995	Igaue et al.				
······································	AE	5,413,849 A	05/1995	Austin et al.				
	AF	5,415,644 A	05/1995	Enfoe			Y	
	AG	5,415,649 A	05/1995	Watanabe et al.				
	АН	5,415,925 A	06/1995	Austin et al.				
	AI	5,422,172 A	06/1995	Wu				
	AJ	5,425,987 A	06/1995	Shawver et al.				
	AK	5,429,629 A	07/1995	Latimer et al.				
				DOCUMENTS		<u></u>		
			1 - 1				TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL						150	NO
	AM							<del> </del>
	AN				1			<u> </u>
	AO		-		1			<del> </del>
	AP				1		<del></del> -	
		OTHER PRIOR ART (Incl	ludina Autho	r Title Date Pertinent	Posses Etc.)			
		1	duling Addition	r, Tiue, Date, Fertinent	Pages, Eld.j			
	AR							
					<del></del>			
	AS			- · · · · · · · · · · · · · · · · · · ·				
								-
	AT						<del></del>	
EXAMINER				DATE CO	NSIDERED			

KCC-2225

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. USCOMM-DC 80-3985

Sheet 24 of 40

FORM PTO-1449 (MODIFIED)				ATTY. DOCKET NO. SERIAL NO. 10/701,259					
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	г	APPLICA Peiguan	NT(S) g ZHOU et a	al.			
				FILING D	ATE		GROUP		
				04 Nove	mber 2003		1712		
		U.S.	PATENT D	OCUMENTS					
*EXAMINER		DOCUMENT NUMBER	DATE		AME	CLASS	SUBCLASS	FILING	
INITIAL							-	IF APPRO	PRIATE
	AA	5,429,694 A	07/1995	Herrmann					-
	AB	5,429,856 A	07/1995	Krueger e	t al.	1			
	AC	5,431,644 A	07/1995	Sipinen et	t al.				-
	AD	5,431,991 A	07/1995	Quantrille	et al.				
	AE	5,447,462 A	09/1995	Smith et a	al.				
	AF	5,447,508 A	09/1995	Numano e	et al.				
	AG 5,449,353 A 09/1995 AH 5,464,401 A 11/1995			Watanabe	et al.				
				Hasse et	al.				
	Al	5,466,410 A	11/1995	Hills					
	AJ	5,472,775 A	12/1995	Obijeski e	et al.				
	AK	5,476,458 A	12/1995	Glaug et a					
			N PATEN		17.001.000	·		-	
								TRANSL	ATION
		DOCUMENT NUMBER	DATE	cou	INTRY	CLASS	SUBCLASS	YES	NO
	AL							TES	NO
	AM								1
<u> </u>	AN					†	**		<del>                                     </del>
			-						
	AO					<u> </u>			
	AP							<u> </u>	<u> </u>
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date	e, Pertinent F	Pages, Etc.)			
	AR				<del></del>				
	AS								
	/.0			<del></del>					
	AT							<del></del>	
	,,,			<del></del> ,					
EXAMINER					DATE CON	SIDERED		•	
*EXAMINER:		tial if reference considered, whether or not t considered. Include copy of this form wit	citation is in	conformanc	e with MPEP	609; Draw I	ine through citat	ion if not	
						-	USC	COMM-DC 8	0-3985

Sheet	25	of	40

FORM PTO-1449 (MODIFIED)									
LIS		PRIOR ART CITED BY APPLICANT		APPLICANT(S)			<del>2.1</del>		
	(I	Use several sheets if necessary)		Peiguang ZHOU et a	al.				
		•		FILING DATE GROUP					
				04 November 2003		1712			
		U.S.	PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
INITIAL	AA	5,476,563 A	12/1995	Nakata			IF APPRO	PRIATE	
	AB	5,484,645 A	01/1996	Lickfield et al.				7772.11	
	AC	5,486,166 A	01/1996	Bishop et al.					
	AD	5,490,846 A	02/1996	Ellis et al.				<u> </u>	
	AE	5,496,298 A	03/1996	Kuepper et al.					
	AF	5,498,468 A	03/1996	Blaney	<u> </u>				
	AG 5,500,075 A 03/1996 AH 5,501,679 A 03/1996			Herrmann					
				Krueger et al.	<del> </del>				
	ΑI	5,509,915 A	04/1996	Hanson et al.	ļ			****	
	AJ	5,5 <b>00,07</b> 5 A	05/1996	Haffner et al.					
	AK	5,5 <b>00,075</b> A	05/1996	Haggard et al.					
		FOREIG	N PATENT	DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
·- ·	AL	N						.,,,	
	AM								
	AN								
· · · · · ·	AO								
	AP			., .					
	LAF_1	OTHER PRIOR ART (Inc	cluding Autho	or Title Date Portinent I	Pages Etc.)				
		OTTENT MONANT (III)	Juding Autic	n, Tille, Date, Fertinelit F	ages, Etc.)		***		
	AR								
	AS					<del></del>			
		-							
	AT			<del></del>		-	·		
EXAMINER	EXAMINER			DATE CON	SIDERED				
*EXAMINER:		tial if reference considered, whether or not of considered. Include copy of this form wit	citation is in	conformance with MPEP	609; Draw !	ine through citat	on if not	-	
		The state of the s		to applicant.	19	USC	COMM-DC 8	0-3985	

Sheet 26 of 40 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO. PATENT AND TRADEMARK OFFICE (MODIFIED) KC-19,694 10/701,259 LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S) (Use several sheets if necessary) Peiguang ZHOU et al. FILING DATE **GROUP** 04 November 2003 1712 **U.S. PATENT DOCUMENTS** *EXAMINER DOCUMENT NUMBER DATE **CLASS** NAME **SUBCLASS FILING DATE** INITIAL IF APPROPRIATE AΑ 5,523,146 A 06/1996 Bodford et al. AΒ 5,527,300 A 06/1996 Sauer AC 5,531,850 A 07/1996 Herrmann ΑD 5,534,330 A 07/1996 Groshens ΑE 5,536,563 A 07/1996 Shah et al. ΑF 5,540,796 A 07/1996 Fries AG 07/1996 5,540,976 A Shawver et al. 08/1996 AΗ 5,543,206 A Austin et al. ΑI 5,545,158 A 08/1996 Jessup ΑJ 5,545,285 A 08/1996 Johnson ΑK 5,549,964 A 08/1996 Shohji et al. **FOREIGN PATENT DOCUMENTS** TRANSLATION DOCUMENT NUMBER DATE COUNTRY CLASS SUBCLASS YES NO AL AM ΑN ΑO AP OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR AS

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

AT

USCOMM-DC 80-3985

Sheet 27 of 40

FORM PTO-1449 (MODIFIED)				ATTY. DOCKET NO. SERIAL NO. 10/701,259					
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	•	APPLICANT(S)			<del>-</del> -		
	(	Ose several sneets if necessary)		Peiguang ZHOU et a	al.				
				FILING DATE	FILING DATE GROUP				
				04 November 2003 1712					
		U.S.	PATENT D	OCUMENTS	· · · · · · · ·		7* <b>2</b> -		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	5,569,232 A	10/1996	Roe et al.					
-	АВ	5,575,783 A	11/1996	Clear et al.					
	AC	5,576,090 A	11/1996	Suzuki				*	
	AD	5,582,668 A	12/1996	Kling					
6	AE	5,591,152 A	01/1997	Buell et al.					
AF 5,591,792 A 01/199				Hattori et al.					
AG 5,595,618 A 04/199			04/1997	Fries et al.					
	AH 5,597,430 A 04 AI 5,612,118 A 03			Rasche					
				Schleinz et al.					
	AJ	5,614,276 A	03/1997	Petsetakis					
	AK	5,620,780 A	04/1997	Krueger et al.		_			
		FOREIG	N PATENT	DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	АМ								
	AN								
	AO					.,			
	AP								
		OTHER PRIOR ART (Ind	cluding Autho	or, Title, Date, Pertinent F	Pages, Etc.)	<u>.</u>			
	.	•				·			
	AR				· · · · · · · · · · · · · · · · · · ·				
				·	· <del>-</del>				
_	AS								
	АТ			4.4					
EXAMINER			144	DATE CON	SIDERED		<i>P</i>		
*EXAMINER	: Ini	itial if reference considered, whether or not	citation is in	conformance with MPFP	609: Draw	line through citat	ion if not	<del></del>	
		ot considered. Include copy of this form wit			,		COMM-DC 8	0-3985	

Sheet	_28	of	4(

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. SERIAL NO. 10/701,259						
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	Г	APPLICANT(S) Peiguang ZHO	U et al.					
				FILING DATE	, <u></u>	GROUP				
				04 November 2	2003	1712				
		U.S.	PATENT D	DOCUMENTS						
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I			
	ΑA	5,624,740 A	04/1997	Nakata						
	AB	5,626,573 A	05/1997	lgaue et al.			ļ. <u>.</u>			
	AC	5,628,856 A	05/1997	Dobrin et al.						
	AD	5,645,672 A	07/1997	Dobrin						
	AE	5,652,041 A	07/1997	Buerger et al.						
	AF	5,660,664 A	08/1997	Herrmann						
	AG	5,663,228 A	09/1997	Sasaki et al.				W.W		
	АН	5,669,897 A	09/1997	Lavon et al.						
	AI	5,680,653 A	10/1997	Mathis et al.						
	AJ	5,681,302 A	10/1997	Melbye et al.						
	AK	5,683,787 A	11/1997	Boich et al.						
		FOREIC	N PATENT	DOCUMENTS						
		DOCUMENT NUMBER	DATE	COLINTRY	CLASS	CUROL AGO	TRANSL	ATION		
		DOCUMENT NOMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO		
	AL									
	AM	- Paris - 1				,				
	AN									
	AO									
	AP									
		OTHER PRIOR ART (Inc	cluding Autho	r, Title, Date, Perti	nent Pages, Etc.)			<u></u>		
	AR									
-	AN				·		<u>-</u>			
	AS				<u> </u>					
					<del></del>					
	AT									
EXAMINER		•	-	DATE	CONSIDERED					
*EXAMINER:		tial if reference considered, whether or not t considered. Include copy of this form wit	citation is in h next comm	conformance with I	MPEP 609; Draw I ant.	_	ion if not			

						Shee	t 29 of	40		
FORM PTO-1449		U.S. DEPARTMENT OF		ATTY. DOCKET NO.		SERIAL NO.				
(MODIFIED)		PATENT AND TRADE	MARK OFFICE	KC-19,694 10/701,259						
LIS	TOF	PRIOR ART CITED BY APPLICAN	т	APPLICANT(S)		1.50		**		
	(	Use several sheets if necessary)		Peiguang ZHOU et	al.					
				FILING DATE		GROUP				
				04 November 2003		1712				
	· · · · ·	U.S.	PATENT D	OCUMENTS		T				
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I			
	AA	5,690,626 A	11/1997	Suzuki et al.						
	АВ	5,691,034 A	11/1997	Krueger et al.						
	AC	5,693,038 A	12/1997	Suzuki et al.						
	AD	5,695,849 A	12/1997	Shawver et al.						
	AE	5,702,378 A	12/1997	Widlund et al.						
	AF	5,707,709 A	01/1998	Blake						
	AG	5,709,921 A	01/1998	Shawver						
	АН	5,720,838 A	02/1998	Nakata						
	AI	5,733,635 A	03/1998	Terakawa et al.		•				
	AJ	5,733,822 A	03/1998	Gessner et al.						
	AK	5,735,839 A	04/1998	Kawaguchi et al.						
		FOREI	GN PATEN	T DOCUMENTS						
							TRANSL	ATION		
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO		
	AL									
	AM									
	AN									
	AO									
	AP									
		OTHER PRIOR ART (In	ncluding Autho	or, Title, Date, Pertinent	Pages, Etc.)					
	AR			,						
	AS					*//-				
	<del></del>									

						Shee	t 30 of	40	
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT ( PATENT AND TRAD		ATTY, DOCKET NO		SERIAL NO.			
,				KC-19,694		10/701,259			
LIS		RIOR ART CITED BY APPLICA	T	APPLICANT(S)		-			
	(Us	e several sheets if necessary)		Peiguang ZHOU e	t al.				
				FILING DATE		GROUP			
				04 November 2003	3	1712			
	~~~ <u> </u>	U.s	S. PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	5,736,219 A	04/1998	Suehr et al.					
	AB	5,746,731 A	05/1998	Hisada					
	AC	5,749,865 A	05/1998	Yamamoto et al.	_				
	AD	5,749,866 A	05/1998	Roe et al.	_				
	AE	5,766,389 A	06/1998	Brandon et al.					
	AF	5,766,737 A	06/1998	Willey et al.					
	AG	5,769,838 A	06/1998	Buell et al.					
	АН	5,769,993 A	06/1998	Baldauf					
	Al	5,772,649 A	06/1998	Siudzinski					
	AJ	5,773,373 A	06/1998	Wynne et al.					
	AK	5,773,374 A	06/1998	Wood et al.		<u> </u>	<u> </u>		
		FORE	IGN PATEN	DOCUMENTS		r			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION	
		DOGGINEIAL HOMBEN	DATE	CODITAT	CLASS	SUBCLASS	YES	NO	
	AL						<u></u>		
	AM		 					ļ	
	AN								
	AO								
	AP							<u> </u>	
		OTHER PRIOR ART (Including Autho	or, Title, Date, Pertinent	t Pages, Etc.)				
!	AR -								
						-	-		
	AS				·				

DATE CONSIDERED

EXAMINER

Sheet 31 of 40

FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO. SERIAL NO. 10/701,259					
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	г	APPLICANT(S) Peiguang ZHOU et al.					
				FILING DATE GROUP					
				04 November 2003		1712			
		U.S.	PATENT D	OCUMENTS				-	
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPRO		
	AA	5,788,804 A	08/1998	Horsting					
	AB	5,789,065 A	08/1998	Haffner et al.					
	AC	5,789,328 A	08/1998	Kurihara et al.				-	
	AD	5,789,474 A	08/1998	Lu et al.	i i			-	
	AE	5,790,983 A	08/1998	Rosch et al.					
	AF	5,800,903 A	09/1998	Wood et al.					
	AG	5,817,0 \$ 7 A	09/1998	Abuto et al.					
	AH 5,804,286 A 09			Quantrille et al.				<u>-</u>	
	AI	5,814,176 A	09/1998	Proulx					
	AJ	5,817,087 A	10/1998	Takabayashi et al.					
	AK	5,818,719 A	10/1998	Brandon et al.				_	
		FOREIG	N PATENT	F DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	АМ								
	AN								
	AO								
	AP								
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent I	Pages, Etc.)				
							-	-	
	AR								
	AS				-				
	АТ				·				
EXAMINER				DATE CON	ISIDERED	·	·		
*EXAMINER:		tial if reference considered, whether or not t considered. Include copy of this form with	citation is in h next comm	conformance with MPEP unication to applicant.	609; Draw I				
				_ :		HSC	COMM-DC 8	0_3085	

Sheet 32 of 40

FORM PTO-1449 (MODIFIED)									
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)		APPLICANT(S) Peiguang ZHOU et al.					
				FILING DATE			GROUP	·	
				04 Nove	mber 2003		1712		
		U.S.	PATENT D	OCUMEN.	TS				
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	N/	AME	CLASS	SUBCLASS	FILING I	
	AA	5,830,203 A	11/1998	Suzuki et	al.				
	АВ	5,834,089 A	11/1998	Jones et a	al				
	AC	5,836,931 A	11/1998	Toyoda et	t al.				
	AD	5,836,932 A	11/1998	Buell et al	l				
	AE	5,840,412 A	11/1998	Wood et a	al.	_9			
	AF	5,840,633 A	11/1998	Kurihara e	et al.				10.2
	AG	5,846,232 A	12/1998	Serbiak et	t al.				
	АН	5,849,001 A	12/1998	Torimae e	et al.	<u> </u>			
	Al	5,856,387 A	01/1999	Sasaki et	al.				
	AJ	5,858,515 A	01/1999	Stokes et	al.				
	AK	5,860,945 A	01/1999	Cramer et	t al.				
		FOREIG	N PATENT	L DOCUME	ENTS				
								TRANSL	ATION
	Al A	DOCUMENT NUMBER	DATE	cou	INTRY	CLASS	SUBCLASS	YES	NO
	AL								
	AM				."				
	AN		ì					,	
	АО								Ī
	AP								1
		OTHER PRIOR ART (Inc	cludina Autho	or. Title. Date	e. Pertinent P	Pages Etc.)			
				., , , , ,	.,,				
	AR				-	·			-
						•	**		
	AS					-			
	АТ								
EXAMINER					DATE CON	SIDERED			
*EXAMINER:		tial if reference considered, whether or not of considered. Include copy of this form with	citation is in	conformanc unication to	e with MPEP applicant.	609; Draw	line through citat	ion if not	

USCOMM-DC 80-3985

Sheet 33 of 40 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. SERIAL NO. (MODIFIED) KC-19,694 10/701,259 LIST OF PRIOR ART CITED BY APPLICANT APPLICANT(S) (Use several sheets if necessary) Peiguang ZHOU et al. FILING DATE **GROUP** 04 November 2003 1712 **U.S. PATENT DOCUMENTS** *EXAMINER **DOCUMENT NUMBER** DATE NAME **CLASS SUBCLASS FILING DATE** INITIAL IF APPROPRIATE AΑ 5,865,933 A 02/1999 Morin et al. AB 5,876,392 A 03/1999 Hisada AC 5,879,776 A 03/1999 Nakata AD 5,882,573 A 03/1999 Kwok et al. 03/1999 ΑE 5,885,656 A Goldwasser ΑF 5,885,686 A 03/1999 Cederblad et al. AG 04/1999 5,897,546 A Kido et al. AH 5,899,895 A 05/1999 Robles et al. ΑI 5,902,540 A 05/1999 Kwok ΑJ 5,904,298 A 05/1999 Kwok et al. ΑK 5,916,206 A 06/1999 Otsubo et al. **FOREIGN PATENT DOCUMENTS TRANSLATION** DOCUMENT NUMBER DATE COUNTRY **CLASS SUBCLASS** YES NO AL AM AN AO ΑP OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR AS

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

EXAMINER

AT

Sheet 34 of 40 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE SERIAL NO. ATTY. DOCKET NO. (MODIFIED) PATENT AND TRADEMARK OFFICE KC-19,694 10/701,259 APPLICANT(S) LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary) Peiguang ZHOU et al. FILING DATE **GROUP** 04 November 2003 1712 **U.S. PATENT DOCUMENTS** *EXAMINER DOCUMENT NUMBER DATE NAME CLASS **SUBCLASS FILING DATE** INITIAL IF APPROPRIATE AΑ 5,921,973 A 07/1999 Newkirk et al. AB 5,930,139 A 07/1999 Chapdelaine et al. AC 5,931,581 A 08/1999 Garberg et al. AD 5,932,039 A 08/1999 Popp et al. ΑE 08/1999 5,938,648 A LaVon et al. 08/1999 ΑF 5,941,865 A Otsubo et al. AG D414,262 S 09/1999 Ashton et al. 09/1999 ΑH 5,952,252 A Shawver et al. ΑI 5,964,970 A 10/1999 Woolwine et al. ΑJ 10/1999 Heath et al. 5,964,973 A ΑK 5,990,377 A 11/1999 Chen et al. **FOREIGN PATENT DOCUMENTS TRANSLATION** DOCUMENT NUMBER DATE COUNTRY CLASS **SUBCLASS** YES AL AM

	AP			,,,							
			OTHER	PRIOR	R ART (Ir	ncluding Auti	nor, Title, i	Date, Pertinent i	Pages, Etc.))	
							-				
	AR										
	AS										
	AT										
EXAMINER		•						DATE CON	ISIDERED		

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

AN AO

Sheet 35 of 40

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE			ATTY. DOCKET NO. SERIAL NO. 10/701,259						
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	•	APPLICANT(S) Peiguang ZHOU et al.					
				FILING DATE		GROUP			
				04 November 2003		1712			
		U.S.	PATENT D	OCUMENTS			, '		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	5,993,433 A	11/1999	St. Louis et al.					
	AB	5,997,521 A	12/1999	Robles et al.					
	AC	6,004,306 A	12/1999	Robles et al.					
	AD	6,033,502 A	03/2000	Coenen et al.					
	AE	6,045,543 A	04/2000	Pozniak et al.					
	AF	6,048,326 A	04/2000	Davis et al.					
	AG	6,057,024 A	05/2000	Mleziva et al.					
	АН	6,066,369 A	05/2000	Schulz et al.					
	Al	6,087,550 A	07/2000	Anderson-Fischer et al.					
	AJ	6,090,234 A	07/2000	Barone et al.					
	AK	6,092,002 A	07/2000	Kastman et al.					
		FOREIG	N PATENT	DOCUMENTS					
							TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	AM								
	AN								
	AO								
	AP					.,,,			
		OTHER PRIOR ART (Inc	luding Autho	or, Title, Date, Pertinent P	ages, Etc.)				
	AR						-		
	AS								
	\ <u></u>								
	AT								
EXAMINER	·			DATE CONS	SIDERED				
*EXAMINER: in conformance		tial if reference considered, whether or not t considered. Include copy of this form wit	citation is in h next comm	conformance with MPEP unication to applicant.	609; Draw I				
						USC	COMM-DC 8	0-3985	

Sheet	36	of	40
Once		_ ·	70

FORM PTO-1449 (MODIFIED)				ATTY. DOCKET NO. SERIAL NO. 10/701,259					
LIS		PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)	Г	APPLICANT(S) Peiguang ZHOU et al.					
				FILING DATE	GROUP				
				04 November 2003		1712			
		U.S.	PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING I		
	AA	6,093,663 A	07/2000	Ouellette et al.					
	AB	6,096,668 A	08/2000	Abuto et al.					
	AC	6,123,694 A	09/2000	Pieniak et al.					
	AD	6,132,410 A	10/2000	Van Gompel et al.					
	AE	6,149,637 A	11/2000	Allen et al.					
	AF	6,152,904 A	11/2000	Matthews et al.					
	AG	6,169,848 B1	01/2001	Henry					
	АН	6,183,587 B1	02/2001	McFall et al.					
	Al	6,183,847 B1	02/2001	Goldwasser					
	AJ	6,197,845 B1	03/2001	Janssen et al.					
	AK	6,214,476 B1	04/2001	lkeda et al.		-			
		FOREIG	N PATENT	DOCUMENTS					
							TRANSLATION		
V 10 11 11	n Bu	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	CLASS SUBCLASS	YES	NO	
	AL			``					
	АМ				-				
	AN								
	AO								
	AP								
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent F	Pages, Etc.)			1	
						-			
	AR					*			
<u> </u>									
	AS		•	· · · · · · · · · · · · · · · · · · ·					
			**		·				
	АТ						***		
EXAMINER				DATE CON	SIDERED				
*EXAMINER:	Ini	itial if reference considered, whether or not ot considered. Include copy of this form wit	citation is in	conformance with MPEP unication to applicant.	609; Draw I	ine through citat	on if not		
						USC	COMM-DC 8	0-3985	

Sheet	37	of	40
Sneet	3/	Oī	40

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE					SERIAL NO. 10/701,259				
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)	•	APPLICANT(S) Peiguang ZHOU et al.					
				FILING DATE			GROUP		
				04 Noven	nber 2003		1712		
		U.S.	PATENT D	OCUMENT	·s		_		
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NA	ME	CLASS	SUBCLASS	FILING D	
	AA	6,217,690 B1	04/2001	Rajala et a	ıl.				
	AB	6,231,557 B1	05/2001	Krautkram	er et al.				
	AC	6,238,379 B1	05/2001	Keuhn, Jr.	et al.				
	AD	6,245,168 B1	06/2001	Coenen et	al.				
	AE	6,260,211 B1	07/2001	Rajala et a	al.				,
	AF	6,279,807 B1	08/2001	Crowley et	al.			-	
	AG	6,290,979 B1	09/2001	Roe et al.					
	АН	6,310,164 B1	10/2001	Morizono e	et al.				
	Al	6,316, 688 B1	11/2001	Paul et al.					
	LΑ	6,316,687 B1	11/2001	Davis et al	l.				
	AK	6,316,688 B1	11/2001	Hammons	et al.				
		FOREIC	SN PATEN	T DOCUME	NTS				
							TRANSLATION		
		DOCUMENT NUMBER	DATE	cou	NTRY	CLASS	SUBCLASS	YES	NO
	AL								
	AM								
	AN				_				
	AO				<u></u>				
	AP								
	-	OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date	e, Pertinent F	Pages, Etc.)			
			-						
	AR				-			-	
	AS								
	AT				****		·		
EXAMINER					DATE CON	SIDERED			
*EXAMINER in conformance		itial if reference considered, whether or not ot considered. Include copy of this form wi				609; Draw		ion if not	0.3095

Sheet	38	of	40

FORM PTO-1449 (MODIFIED)				ATTY. DOCKET NO. SERIAL NO. 10/701,259				
LIS		PRIOR ART CITED BY APPLICANT Use several sheets if necessary)		APPLICANT(S) Peiguang ZHOU et al.				
				FILING DATE	FILING DATE GROUP			
				04 November 2003		1712		
	U.S. PATENT I							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING D	
	AA	6,320,096 B1	11/2001	Inoue et al.				
	AB	6,323,389 B1	11/2001	Thomas et al.				
	AC	6,329,459 B1	12/2001	Kang et al.				
	AD	6,364,863 B1	04/2002	Yamamoto et al.				·
	AE	6,365,659 B1	04/2002	Aoyama et al.				
	AF	6,367,089 B2	04/2002	Van Gompel et al.				
	AG	6,475,600 B1	11/2002	Morman et al.				-
	АН	6,537,935 B1	03/2003	Seth et al.				
	AI	6,645,190 B1	11/2003	Olson et al.				
	AJ	6,657,009 B2	12/2003	Zhou				
	AK	6,767,852 B2	07/2004	Friderich et al.				
		FOREIG	N PATEN	DOCUMENTS				
							TRANSL	ATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							
		OTHER PRIOR ART (Inc	cluding Autho	or, Title, Date, Pertinent P	ages, Etc.)			
							-	
·	AR		_					
	AS							
	AT							
EXAMINER				DATE CON	SIDERED			
*EXAMINER		itial if reference considered, whether or not of considered. Include copy of this form with			609; Draw	line through citat	ion if not	
comomitano	- 4114 11	treation and the state of the soul will	HOAL GOITHI			US	COMM-DC 8	0-3985

						Shee	t 39 of	40	
ORM PTO-1449)	U.S. DEPARTMENT		ATTY. DOCKET NO.		SERIAL NO.			
(MODIFIED)		PATENT AND TRAD	EMARK OFFICE	KC-19,694					
LIS		IOR ART CITED BY APPLICAI	TV	APPLICANT(S)					
	(Use	e several sheets if necessary)		Peiguang ZHOU et al.					
				FILING DATE	GROUP				
				04 November 2003	i	1712			
		U.	S. PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING (IF APPRO		
	AA	2002/0002021 A1	01/2002	May et al.					
	АВ	2002/0009940 A1	01/2002	May et al.	<u> </u>				
	AC	2002/0019616 A1	02/2002	Thomas					
	AD	2002/0072561 A1	06/2002	Johoji et al.					
	AE	2002/0081423 A1	06/2002	Heffelfinger			·		
	AF	2002/0104608 A1	08/2002	Welch et al.	1				
	AG	2002/0122953 A1	09/2002	Zhou					
	АН	2002/0123538 A1	09/2002	Zhou et al.					
	AI	2002/0123726 A1	09/2002	Zhou et al.					
	AJ	2002/0138063 A1	09/2002	Kuen et al.					
	AK	2002/0164465 A1	11/2002	Curro et al.					
		FORI	EIGN PATEN	T DOCUMENTS			1		
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	AM			ļ		<u> </u>			
	AN								
	AO								
	AP			1					
	· r · · · · · · ·	OTHER PRIOR ART	(Including Auth	or, Title, Date, Pertinent	Pages, Etc.)				
	AR				,····	· · · · ·			
	AS								

ΑT

DATE CONSIDERED **EXAMINER**

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

		4				Sheet	40 of	40	
FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF PATENT AND TRADEM		ATTY. DOCKET NO.		SERIAL NO.			
(MODII ILD)		PATENT AND TRADEM	ARK OFFICE	KC-19,694		10/701,259			
LIS		PRIOR ART CITED BY APPLICANT	-	APPLICANT(S)					
	((Use several sheets if necessary)		Peiguang ZHOU et al.					
				FILING DATE 04 November 2003		GROUP			
						1712			
		U.S.	PATENT D	OCUMENTS					
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING IF APPR	DATE OPRIATE	
	AA	2003/0232928 A1	12/2003	Atwood et al.					
	АВ	2004/0127128 A1	07/2004	Thomas					
	AC								
_	AD								
	AE								
	AF				<u> </u>				
	AG				ļ				
	АН								
	IA_				1				
	AJ	• 1							
	AK								
		FOREIG	N PATENT	DOCUMENTS					
		DOCUMENT NUMBER	DATE	OOUNTDY OU AGO	CLASS	ASS SUBCLASS	TRANSI	LATION	
		DOCOMENT NOMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO	
	AL								
	AM								
	AN	- 4115							
	AO								
	AP								
		OTHER PRIOR ART (Inc.	luding Autho	r, Title, Date, Pertinent I	Pages, Etc.)				
	AR					-		-	
	,,		<u> </u>						
	AS		_			_			
	АТ								
EXAMINER				DATE CON	ISIDERED				
*EXAMINER:	Init	tial if reference considered, whether or not c	ritation in in	LL		ing the court of the	:		
in conformance	and no	t considered. Include copy of this form with	next comm	unication to applicant.	JUB, DIAW I	e unough citatii	זסח וו ווכ		